MODEL NO:

ZE-MC294

2-DIN MONICEIVER
15,5cm/6.1" LCD DISPLAY

USER MANUAL

ENGLISH

ZENEC

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INTRODUCTION

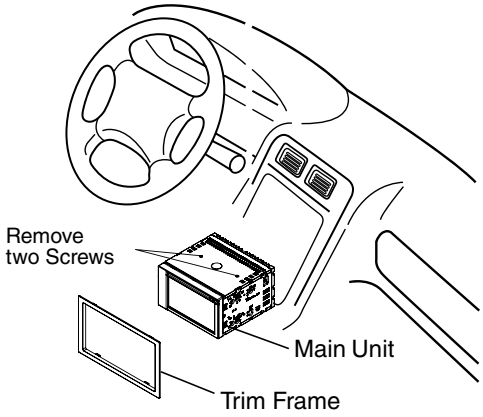
Dear customer,
thank you for purchasing the ZE-MC294 moniceiver. You acquired a multifunctional car multimedia center which is able to playback files from a plethora of formats. It can be extended with the navigation unit ZE-NA2000N and the DVB-T-receiver ZE-DVB2000. You can directly connect an iPod, iPhone and play all formats the handheld can, when it is connected.

SUPPORTED FORMATS AND DISC STRUCTURES:

The unit has been tested with, but is not limited to, the following encoding standards:
DVD, DVD-R, DVD+R, DVD-RW, CD, CD-R, VCD, DVCD, CDDA, Picture-CD (JPG), MP3, WMA, XVID, DivX.

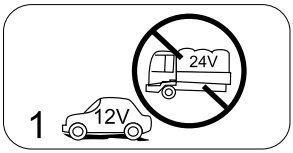
⚠ PLEASE NOTE:

Before installation remove the two screws on top of the device or the DVD drive will not work properly.



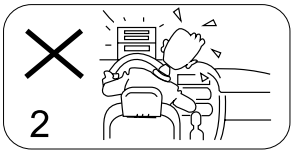
WARNINGS

1. Only connect this unit to a 12V DC power supply with negative grounding.



2. Never install this unit at a place where it could interfere with your overview during driving. It is designed for the center console.

3. Do not circumvent the security function which prevents you from watching a movie using the front display when you are driving. It' s a dangerous distraction and may also conflict with your local law or even void your insurance.



4. Never expose this unit, the amplifier or the speakers to moisture or water to prevent electronic short-circuiting causing sparks or fire.

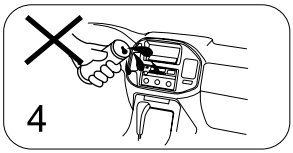
5. Please don‘t change the fuse in the power cord without professional guidance, improper fuse may cause damage to this unit or may even cause a fire.

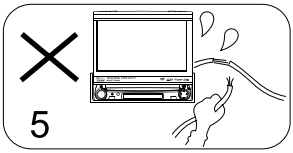
6. Please power off this unit at once and send it back to the after-sales service center or the dealer/distributor you purchased it from if one of the following symptoms is found:

   (a) Water or objects which got into the unit;

   (b) Smoke;

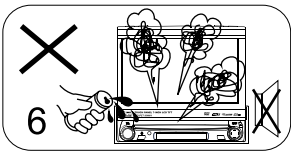
   (c) Peculiar smell.





7. To ensure secure driving, please adjust the volume to a safe level. It may be vital if an emergency situation occurs suddenly, cause you are expected to still hear the siren.

8. Class 1 Laser: Invisible Laser radiation is present when casing is open, avoid exposure of eyes to beam. Servicing of the unit only by authorised ZENEC technicians.



CLASS 1
LASER PRODUCT

WARNINGS

PRECAUTIONS

1. Never disassemble or adjust the unit without any professional guide. For details, please consult an authorized ZENEC dealer.
2. If the front panel or TFT monitor needs to be cleaned, please use a clean silicone cloth and a neutral detergent. Using a rough cloth and non-neutral detergent or all solvents (i.e. ethanol, benzene) for cleaning may result in damage or discoloration.
3. If any abnormal behaviour of the unit is found, please refer to the trouble shooting guide. In case you can't determine the cause of the failure , you can always try to press the [RESET] key on the front panel to restore factory defaults. If that doesn't help either contact your local authorized ZENEC dealer.
4. If you park the car for a longer time period under extreme temperatures (both extreme hot and cold), you should refrain from switching it on immediately. Rather wait until the cabin temperature has reached a range between minus five and plus forty degrees Centigrade.
5. Using in-car heater in low temperature environment may result in condensation inside the unit. DO NOT use the unit in this situation, eject the disc and wipe off the condensation on the disc. If the unit still doesn't work after a few hours, please contact with after-sales service center.
6. To prevent damage to the screen, avoid touching it with sharp objects.
7. If the software version on your unit has been updated the icons used for this documentation may differ from the actual images displayed on the screen.
8. Operate the unit according to this information to prevent unnecessary problems or dangers. Be aware that you also risk your warranty if you don't use the unit in compliance with this manual.

DECLARATION

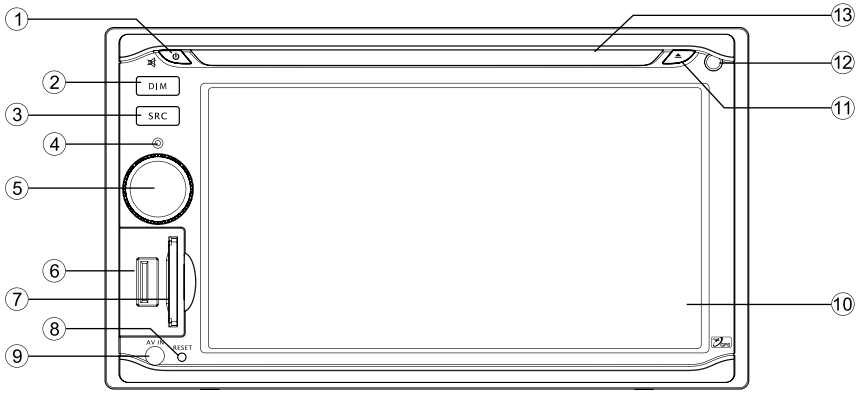
This product incorporates copyright protection technology that is protected by U.S patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision.
Reverse engineering or disassembly is prohibited.

PANEL CONTROLS

START CODE: 012345 (Description: Page 9, 24)

FRONT PANEL

Press the (⏻) button to turn on the unit.



1. Power on
   Mute
   When on, long press to power off.
2. Screen ON/OFF. Keep pressed to toggle between Navigation and Play.
3. Keep pressed for Main Menu.
   Repeated short press:
   Select the following sources
   Radio
   Disc (when a disc is inserted)
   USB (when some USB data carrier is connected)
   Card (when an SD card is inserted)
   AV1 (rear A/V In)
   AV2 (front A/V In)
   Bluetooth
   iPod (when connected)
   DVB-T (optional)
   Navigation (optional)
4. Microphone
5. Rotate to adjust volume level.
   Press to enter Equalizer setting menu.
   Press and hold it to enter setting mode.
6. USB slot
7. SD card slot
8. Reset
9. AV-In jack
10. Touch panel
11. Eject disc (when disc inserted)
    Reset the mechanism (long press)
12. Remote sensor
13. Disc slot

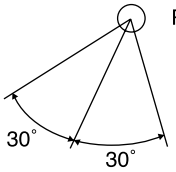
⚠ SAFETY NOTES:

■ The DVD video display of the center console unit will not operate while the vehicle is moving. This is a safety feature to prevent the driver from being dangerously distracted. The DVD video functions will only work on the front screen, when the vehicle has been stopped and the parking brake is engaged. It is illegal in most countries for the driver to view video while the vehicle is in motion. Optional headrest monitors for the back passengers will, however, always work.

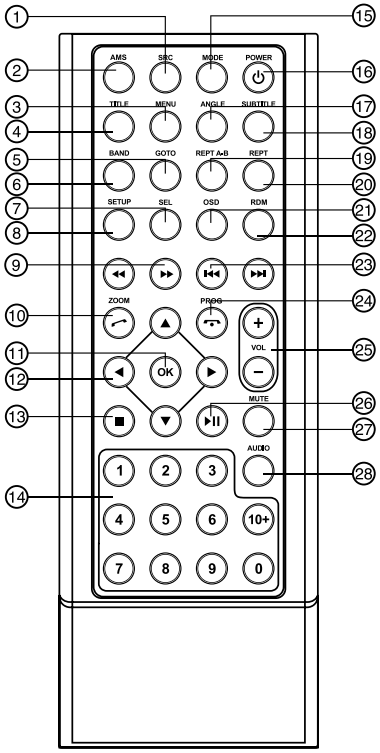
REMOTE CONTROLS

REMOTE CONTROL OPERATING RANGE

The remote control can operate within a distance of 3~5 m.



Press (⏻) to turn on/off the unit.

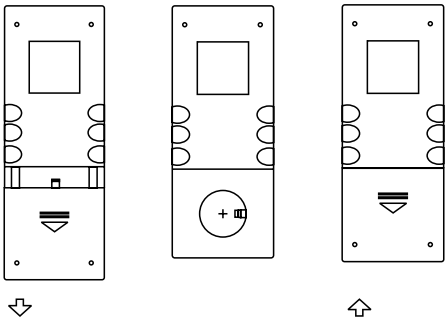


1. Select the following sources:
   Radio
   Disc (when a disc is inserted)
   USB (when USB drive is connected)
   Card (when an SD card is inserted)
   AV1 (rear A/V In)
   AV2 (front A/V In)
   Bluetooth
   Navigation (optional)
   iPod (optional)
   DVB-T (optional)
2. Radio preset scan
   Radio auto preset
3. Menu (DVD)
4. Title (DVD)
5. Go to search
6. Radio band
   Video System PAL/NTSC/AUTO
7. Sound/display setting
8. System setup
9. Fast reverse/forward playback
10. Zoom (DVD/VCD)
    Dial/Receive call
11. Enter
12. Menu Cursor
13. Stop/Return
14. Digit area
15. Enter main menu
16. Power on/off
17. Angle (DVD)
18. DVD subtitle
19. A-B repeat
20. Repeat
21. On-screen display
22. Track random play
23. Radio tune
    Track skip/seek
24. Call off/cancel
    Program
25. Volume
26. Play/Pause
27. Mute
28. DVD audio
    VCD audio L/R/ST

REPLACING THE LITHIUM BATTERY OF THE REMOTE CONTROL UNIT

- When the range of the operation of the card remote control deteriorates or has no functions at all, replace the lithium battery type 2025 with a new one.

1. Open the back cover of the remote control unit.
2. Insert the button-type battery with the stamped (+) mark facing upwards, directly under the small metal tongue. Close the back cover.



⚠ WARNING:

- Store the battery where children cannot reach it. If a child accidentally swallows the battery, consult a doctor immediately.
- Do never ever recharge, short-circuit, disassemble or heat up the battery nor dispose it in fire as this might cause it to explode. Lithium batteries, even more than other battery types, are prone to explode when they become excessively hot.
- Do not expose or bring the battery into contact with any other metallic material as it will, most likely, short-circuit the battery.
- For the very same reason, when throwing away or storing the battery, wrap it in tape or insulate it somehow.

BASIC OPERATIONS

PASSWORD

If you power-on the unit for the first time you need to enter a password. You will also need to re-enter it every time the unit has been disconnected from the power supply or when the battery has been removed or replaced.
Type "**012345**" (default), using the numeric on-screen display. Touch ← to erase previous number. Touch ↵ to confirm.

TURN ON/OFF THE POWER

1. Press the (⏻) button to switch on the unit.

■ The unit resumes with the status it had before it was powered off.

2. When on, press the (⏻) button at least two seconds to switch off the unit.

MUTE

Press the PWR button (⏻) very briefly to toggle the sound off and on.

⚠ NOTES:

■ MUTE will be displayed on-screen during muting.

■ Muting will be cancelled, if you adjust the volume.

ADJUST THE VOLUME

Rotate the VOL knob to increase or decrease the volume level.
The adjustable range is 0 to 39.

PLAYING SOURCE SELECTION

Method 1:

■ Press SRC button on the panel or remote control to cycle through all the available sources.

Method 2:

■ Open the 'Main menu' by keeping SRC pressed at the top left corner of the TFT or press MODE button on remote control, and then touch the desired option or select the option by moving the cursor and then confirm. Touch ◂ / ▸ on the TFT to show other options of the main menu.

⚠ NOTES:

■ Devices which are not ready or not connected cannot be chosen and the icons will be grayed out.

■ When entering DVD mode allow the DVD reader up to an entire minute to initialise. It will auto-enter the DVD-menu if a DVD is inserted.

PARKING BRAKE DETECTOR

1. The 'PRK SW' cable is connected to the hand brake switch in order to blank the DVD screen when the handbrake is not engaged.

2. If you try to watch a video with the handbrake released you will see ""WARNING!" Engage Parking Brake to View Video" on-screen. No video will be shown on the console screen. Optional headrest monitors for the backseat passengers will, however, function normally.

WHEN REVERSE DRIVING

If the rear view video camera is connected, the unit automatically switches to CAMERA source during reverse driving. The unit returns to it´s previous work after the reverse driving is done.

DISC OPERATION

INSERT A DISC

Insert a disc into the slot, and the unit will change automatically to disc mode.

⚠ NOTES:

- Please check, if there is already a disc in the unit before you try to insert another one.
- The unit will exit current playing source and enter DVD mode when a disc is inserted.
- Some recorded discs, such as CD-R, CD-RW, DVD-R, DVD + R, DVD-RW, DVD+RW can only be played, when they are closed after recording (i.e. “close session and disc”).

EJECT THE DISC

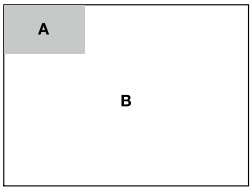
Press ⏏ button to eject the disc.

⚠ NOTES:

- After ejecting the disc, the unit reverts automatically to the previously used mode.
- You can eject a disc even when the unit is switched off. The unit remains switched off after the disc is ejected.
- If the disc is not removed from the unit within 10 seconds, it will be reloaded to prevent accidental damage.

USING THE TOUCH SCREEN CONTROLS

The touch key areas for CD/VCD/DVD playback are outlined below:



A - Turn to main menu
B - Display on screen control menu

DISC PLAYBACK

1. After a disc is inserted, the display will show READ. For MP3 or discs with mixed files, the initial reading time may even exceed one minute. Just give it a little time.
2. ERROR will be displayed if a disc read error occurs during disc operation.
3. The unit will auto-recognize the inserted medium (CD, VCD, DVD, etc.) and display the respective icon.
4. If you insert a DVD it advances to the title screen. Now you can easily start it by pressing [play].

FILE TYPES/SUPPORTED FORMATS

Audio file: MP3(*.mp3), WMA(wma)
Video file:
XVID
DivX
MPEG 2 (*.vob)
MPEG 1 (*.dat)
Picture file: JPEG (*.jpg)
Picture CD
MP3 file:
Supported sampling frequency for MP3 disc: 8KHz to 48KHz (44.1 KHz preferably).
Supported bit-rates of MP3 disc are: 32 - 320 kbps (128 kbps preferably).

DISC AND FILE TYPES WHICH ARE NOT SUPPORTED

*.AAC, *.DLF, *.M3U, *.PLS, MP3 PRO files and files with DRM. Discs with left open sessions.

STOP PLAYBACK TEMPORARILY

- During playback, press ⏯ to pause playback.
- The sound will be muted and "PAUSE" is displayed.
- Press ⏯ again to continue playback.

STOP PLAYBACK ENTIRELY

During DVD, VCD, CD, MP3 playback:

1. Press ■ key on remote control once to stop the playback including saving of the relevant location on the disc, press ⏯ to resume the playback from the saved disc location.
2. Press ■ twice to cease the playback. Press ⏯ to start the playback from the very beginning, the title page of the DVD or the first track of VCD / CD.

DISC OPERATION (CONTINUED)

SELECT DESIRED TRACK

- Press ⏮ or ⏭ to skip to the next or previous track.
- Use 1-9 and 0, 10+ buttons on the remote control to select the desired track number.

FAST FORWARD/BACKWARD DURING PLAYBACK

Press ⏮ or ⏭ for more than 2 seconds once and repeat to select X2, X4, X8 or X20 speed of fast backward or forward playback.

- During the fast forward or backward operation, press ⏯ briefly to playback again.
- During the fast forward or backward operation, the volume will be muted.

RANDOM TRACK PLAYBACK (FOR CD/ VCD/MP3 ONLY)

You can play all the tracks in random order.

1. During playback, press [⇄] once or more to choose SHUFFLE, SHUFFLE DIR or SHUFFLE OFF.
2. Press [⇄] again to select normal playback.

REPEAT

During playback, press [↻] once or more.

- REP icon will appear on the display.
- For VCD/CD: Display appears REP ONE → REP ALL → REP OFF
- For DVD: Display appears REP CHAPTER → REP TITLE → REP OFF
- For File disc: Display appears REP ONE → REP DIR → REP ALL → REP OFF

⚠ NOTE:

- If you do not select RPT on, when the entire disc or TITLE playback has finished, the system will stop. After idling more than five minutes the unit will go into standby mode.

GOTO

Go directly to desired track/chapter or time point of DVD video.

Press **GOTO** button on the remote control, track or DVD title/chapter and time display on top of the screen. Current item is highlighted. Use ◀ / ▶ to select desired item. Use the digit buttons to select number. Press **ENTER** to confirm.

PROGRAM

- Press **PROG** to enter the program list. Use ▲/▼ or ◀/▶ cursor and digit button to enter a number.

  For DVD and File disc, select the title and chapter number.

  For VCD and CD, select the track number.
- Press ⏯ to play, or move the cursor to select "PLAY" and press **ENTER** to play.
- If you want to delete the list, move the cursor to "CLEAR" and press **ENTER** to delete all the list set before.
- Press **PROG** again to exit program play.

DVD AUDIO SELECT

Press **AUDIO** or **R/L** to select the audio language to listen to, if the DVD has multiple audio languages.

VCD AUDIO SELECT

Press **R/L** to select audio channel to listen.

L → R → Stereo

DVD SUBTITLE SELECT

Press **SUBTITLE** to select the subtitle language to show, if the DVD has multiple language subtitles.

DVD TITLE SELECT

Press **TITLE** to display the title or chapter list, use ▲/▼ or ◀/▶ cursor or digit number to select, press **ENTER** to play.

DVD ANGLE SELECT

Press **ANGLE** to select a different angle to view, if the DVD has multiple view-angles.

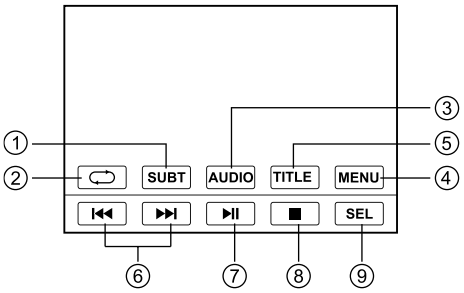
ZOOM

Press the **ZOOM** button, the picture will be zoomed accordingly.

X2→ X3→ X4→ X1/2 → X1/3 → X1/4 → OFF

DVD PLAYBACK MENU

Touch the center of the screen during playback:

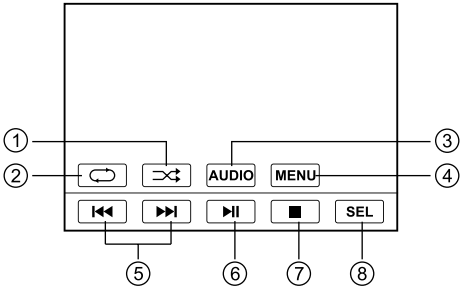


Touch the icon to access desired function.

1. Subtitle select
2. Repeat playback
3. Audio select
4. Menu play
5. Select title
6. Track skip/seek
7. Play/Pause
8. Stop
9. Display audio/video setting menu

VIDEO CD PLAYBACK MENU

During playback touch the center of the screen:



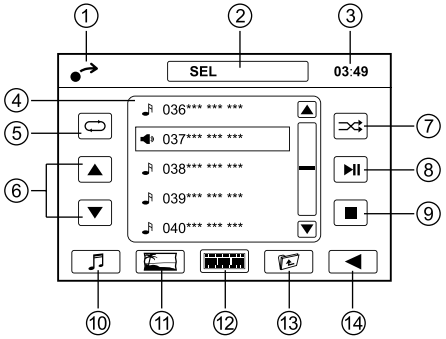
Touch the icon to access desired function.

1. Random play
2. Repeat play
3. Audio select
4. Menu play
5. Track skip/seek
6. Play/Pause
7. Stop
8. Display audio/video setting menu

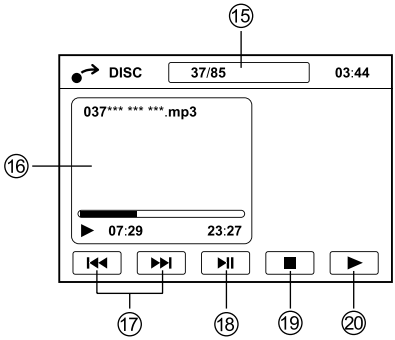
DISC OPERATION (CONTINUED)

CD/MP3/MOVIE/PHOTO MENU

Touch the icon to access desired function.



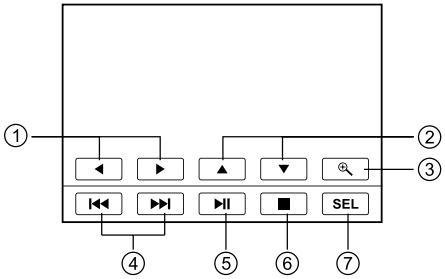
1. Display main menu
2. Display audio/video setting menu
3. Current time
4. Folder/file list
5. Repeat playback
6. Previous/next page
7. Random play
8. Play/Pause
9. Stop
10. Show audio file
11. Show photo file
12. Show video file
13. Back to up folder
14. Show next menu



15. Current track number/total track number
16. Playback Information
17. Track skip/seek
18. Play/Pause
19. Stop
20. Show previous menu

PHOTO INTRO MENU

While intro photos, touch the center of the screen:



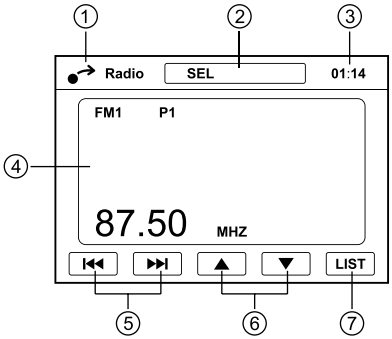
Touch to access desired function.

1. Rotate the picture anticiockwise/clockwise.
2. Mirror the picture vertically/horizontally
3. Zoom
4. Previous/next picture
5. Play/Pause
6. Stop
7. Display audio/video setting menu

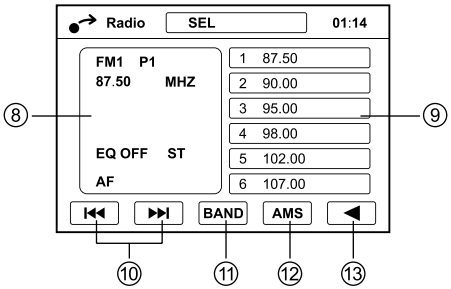
TUNER OPERATION

RADIO MENU

Touch to access desired function.



1. Display main menu
2. Display audio/video setting menu
3. Current time
4. Tuner information
5. Touch to tune automatically
   Press more than 2 seconds to tune manually.
6. Select Previous/next preset station
7. Show radio list



8. Tuner information
9. Preset station
10. Touch to tune automatically.
    Press more than 2 seconds to tune manually.
11. Band switch
12. Auto search and store stations
13. Show previous menu

RDS BASICS

RDS service availability varies with areas. Please understand if RDS service is not available in your area, the following services are not available.

AF MODE

AF(Alternative Frequency): When the radio signal strength is poor, enabling the AF function will allow the unit to automatically search another station with the same PI (program identification) as the current station but with stronger signal strength.
Main menu → Setup menu → Radio → AF On/Off
AF On: AF function is activated.
AF Off: AF function is disabled.
Remark: AF indicator on TFT will flash until RDS information is received. If no RDS service is available in your area, turn off the AF mode.

TA MODE

Some RDS FM stations periodically provide traffic information.
TP (Traffic Program Identification)
Broadcasting of traffic information
TA (Traffic Announcements Identification)
Radio announcements on traffic conditions
Main menu → Setup menu → Radio → TA On/Off.
When TA mode is turned on, the TA indicator will blink.
When traffic announcement is received, the TA indicator will display. The unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement at TA volume level. After the traffic announcement is over, it will return to the previous mode and volume level. When TA is turned on, SEEK, SCAN, AMS function can only be received or saved when traffic program identification (TP) code is received.

TUNER OPERATION (CONTINUED)

TA SEEK/TA ALARM

Main menu → Setup menu → Radio → TA Seek/Alarm.
If the TA (Traffic Announcements) is turned on and there is no traffic program identification code received in the specified time, no TA/TP will display and either TA Alarm or TA Seek will be activated.
TA Alarm mode: Alarm is turned on.
TA Seek mode: TA Seek is automatically activated in non-radio mode.

TA VOL

Main menu → Setup menu → Radio → TA Volume

RETUNE MODE

Main menu → Setup menu → Radio → Retune l/s
RETUNE-S or RETUNE-L is time length selection of TA SEEK retune interval.
RETUNE-S: Short, TA SEEK retune interval is 45 seconds.
RETUNE-L: Long, TA SEEK retune interval is 180 seconds.
REMARK: RETUNE mode functions for TA during TA SEEK mode only.

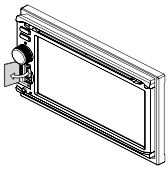
REG MODE

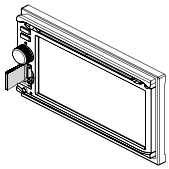
Main menu → Setup menu → Radio → REG On/Off
REG ON: AF function will implement the regional code (of the PI) and only stations in the current region can be tuned automatically. REG OFF: AF function will ignore the regional code (of the PI) and stations in other regions can also be tuned automatically.

USB/SD CARD OPERATION

USING SD-CARD

1. Open the cover flap, insert an SD-Card into the corresponding slot. The unit then switches to card mode, and automatically starts to play back the files found on the card.
2. To remove the card, you should first select another source, in order to avoid damaging the card, press the card slightly, and remove the card after it has popped out, then dose the cap.
3. Select a different source before you remove the inserted USB/SD data carriers, to avoid damaging it's file system.

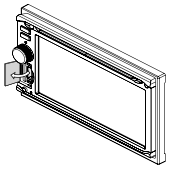


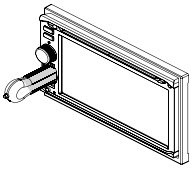


USING USB DEVICE

1. Open the cover flap, insert a USB device into the USB connector.

   After connecting a USB device, the unit will read and play the files automatically.
2. To remove the USB device, you should first select another source (safe removal).





⚠ USB/SD-CARD NOTES:

USB functions and features concerning MP3 music play.

1. Supported file systems FAT12, FAT16, FAT32.
2. Up to 200 directories and 500 files can be displayed and played back from the USB-data carrier.
3. Descriptors of files, directories and titles shouldn't exceed 32 characters/bytes, cause only the first 32 chars will be displayed.
4. ID tag version 2.0 is supported. However, the length of title, artist and album descriptor is limited to 32 chars/bytes.
5. The device supports USB 1.1 and USB 2.0 standards at the speed of USB 1.1.

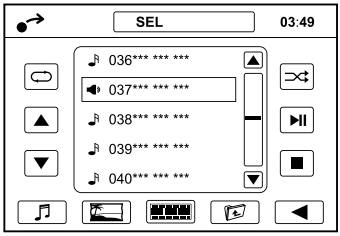
⚠ PLEASE NOTE:

- Due to varying specifications of commercially available USB-data carriers it cannot be guaranteed, that each and every USB-stick will be supported.

iPod OPERATION

USING THE iPod

1. Connect the optionally available iPod cable to the "iPod" connector on the back of the unit. If you want to use the video/ photo function of the iPod, you also need to connect the "iPod CVBS" (3.5 mm) part of the cable.
2. Turn on the unit, the unit should switch to iPod mode upon connection, if not, select the iPod from the main menu. The TFT will show the menu below.



3. When you want to play songs, operate it via the touch-screen of the ZE-MC294.
4. If you want to display photos or playback some videos from the iPod, choose iPod mode and then touch the photo or video icon.

   Both choices will lead to a screen where it says "Please let iPod video play".
5. That means you have to pick up the iPod now and make your choice from here.
6. You can leave this mode by touching the middle of the screen.

BLUETOOTH OPERATION

⚠ NOTE:

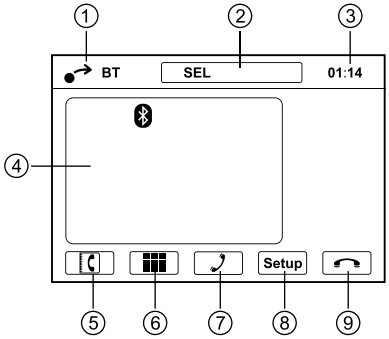
■ Avoid using the phone when driving.

If you still have to use it during driving, your ZE-MC294 offers you hands-free device functions via the built-in Bluetooth interface.

After connection, you may also control your mobile phone through the unit.

PAIRING

Use this function to establish a connection between the unit and your mobile phone. Press the SRC button repeatedly on the panel or touch BT on the Main menu to enter Bluetooth mode.



1. Display main menu
2. Display audio/video setting menu
3. Current time
4. BT Information
5. Display LOG menu
6. Keypad
7. Dial/Receive
8. Display setup menu
9. Hang up

Turn on the Bluetooth function of your mobile phone, keep the phone within three meters to the unit and start to search for Bluetooth devices. After the name of the Bluetooth module the "ZE-MC294" appears on the pairing list of your mobile phone, select it. At this time, a pairing code is required. Enter the pairing code ("**1234**" by default) and the Bluetooth pairing process will continue.

Some mobile phones may instruct you to select connect or disconnect, please select connecting. After pairing successfully, the Bluetooth icon lights up. Touch and hold the [ ] button to disconnect.

DIAL

1. Touch [ ] to open the keypad, dial desired number.
   Touch [ ] to erase previous number.
   Touch [ ] to confirm and dial out.
2. Touch [ ] or press the ( ) key on the remote control to cancel.
3. At BT main menu, touch [ ] to redial the last number.

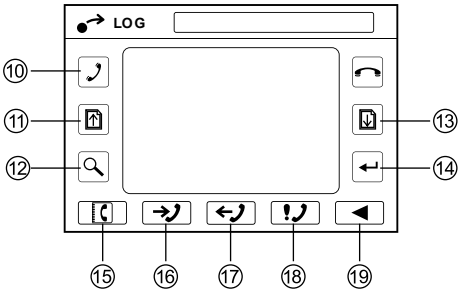
RECEIVE

1. After a successful pairing, when there is a incoming call, the unit switches automatically to BT mode.
2. Touch [ ] or press the ( ) key on the remote control to receive the call.
3. Touch [ ] or press the ( ) key on the remote control to hang up.

BLUETOOTH OPERATION (CONTINUED)

HISTORY

After successful pairing, touch [ ] to open the LOG menu.



10. Dial
11. Page up
12. Search mode
    This icon opens an on-screen keyboard. Touch the character on-screen, touch < button to delete a digit, touch [↵] to begin searching.
13. Page down
14. Enter
15. Phonebook
16. Received calls
17. Dialed numbers
18. Missed calls
19. Return to BT main menu

BT MENU GENERAL OPERATION

Press the **[SRC]** button on the panel or the touch key to enter the main menu, touch [Setup] to enter the unit system setup menu, then touch BT to enter BT setting menu.

1. Pair On/Off

a. ON Allow other phones to be paired besides the phone(s) which are already paired with the unit.

b. OFF Only phones which have already been paired, will find the unit.

2. Auto Connect On/Off

You can toggle the automatic connection On or Off. The Bluetooth technology will automatically establish a connection between the unit and the registered mobile phone when the transmission distance is ten meters or shorter (with auto-connect on). You will, however, loose your connection if the distance exceeds ten meters.

3. Auto Answer On/Off

You can toggle automatic call answering On/Off.

If Auto Answer is On and the phone is properly paired, the unit will pick up the incoming call automatically and you will hear the voice of the caller via your speaker. If Auto Answer is Off you need to accept or reject the call manually.

OTHER MODES

A/V MODE

- External peripheral devices with RCA audio and video outputs can be connected with the unit.
- For more details, please refer to <Electrical Connections Overall Diagram>.

NAV MODE (OPTIONAL)

This player is "navigation ready". Before you can access any navigation features, you need to purchase and install the suitable navigation module ZE-NA2000N. Please refer to the separate “Navigation manual” you will find included with the module.

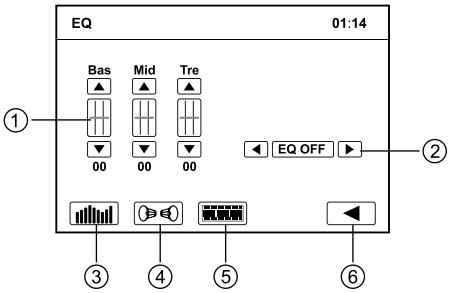
DVB-T MODE (OPTIONAL)

This player is "DVB-T ready". By purchasing and installing the module ZE-DVB2000 you enable the DVB-T functions. Please refer to the separate manual that is delivered with the DVB-T kit.

SYSTEM SETUP

AUDIO/VIDEO SETTING

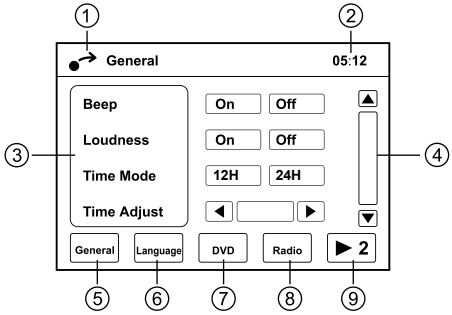
Three ways will lead you to the audio/video settings menu. Choose the one you like.
Method 1: Touch SEL on the TFT.
Method 2: Press the VOL knob.
Method 3: Press the SEL button on the remote control.

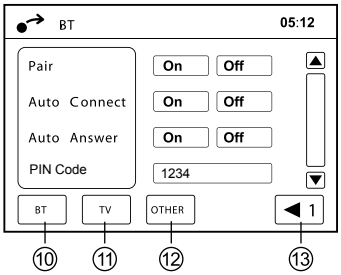


1. Touch the ▲/▼ buttons on the TFT to adjust Bass/Middle/Treble.
2. Touch the ◀ / ▶ buttons on the TFT to select between five preset equalizer profiles (Rock, Classic, Flat, Pop, EQ Off).
   If you select EQ Off your sound will be linearly amplified.
3. Touch to return to the EQ settings menu.
4. Touch to access the Fader/Balance menu, then touch the ▲/▼, ◀ / ▶ buttons on the TFT to adjust the desired choice.
5. Touch to access Video settings menu, then use the ▲/▼ buttons on the TFT to adjust Brightness/Contrast/Colour intensity/Dimmer of the TFT.
6. Touch to exit the audio/video settings menu and return to the previous mode.

SETUP MENU

You have three choices to reach the setup menu:
Method 1: Select SETUP on the main menu.
Method 2: Press the VOL knob more than two seconds.
Method 3: Press the SETUP button on the remote control.





1. Display main menu
2. Current time
3. Adjustable options
4. Page up/down
5. Touch to access general settings options
6. Touch to access language settings options
7. Touch to access DVD settings options
8. Touch to access radio settings options
9. Touch to show next page of the settings menu
10. Touch to access BT settings options
11. Touch to access TV settings options
12. Touch to access other settings options
13. Touch to show previous page of the settings menu

GENERAL SETTINGS

Beep: On, Off
Touch [On] or [Off] to select beep sound on or off.

Loudness: On, Off
Touch [On] or [Off] toggle loudness on or off.

Time Mode: 12H, 24H
Touch [12H] or [24H] to select between 12 or 24 hour time format.

Time Adjust: ◂ ,hh:mm, ▸
Touch left side of [◂ ,hh:mm, ▸] to activate setting of the hours, touch [◂]/[▸] to adjust. Touch right side of [◂ ,hh:mm, ▸] to activate setting of the minutes, touch [◂]/[▸] to adjust.

Backlight: On, Off
Touch [On] or [Off] to toggle the back-light.

Mirror: On, Off
Touch [On] or [Off] to select mirrorred or normal display. While it's activated the camera output will be mirrored.

Subwoofer: Off, 80Hz, 120Hz, 160Hz
Touch [Off] to turn off the subwoofer, touch [80Hz], [120Hz] or [160Hz] to set subwoofer frequency.

Subwoofer Volume:
When the subwoofer is activated, touch [◂]/[▸] to adjust subwoofer volume.

LANGUAGE SETTINGS

OSD Language
Audio Language
Subtitle Language
Menu Language
You may allocate more than one language to different areas (see above).
To show all the optional languages, push on the actual selected language to pop up a menu choice of all available. Make your choice or touch [◀1] to return to the previous menu without any modification.
If the inserted DVD disc provides the audio file in the selected language, the dialogues you listen to will be in the selected language. If the DVD disc does not deliver the audio file in the selected language, they will be in the default language.
You can change the language by pressing [AUDIO] key of the remote controller.

DVD SETTINGS

TV System: NTSC, PAL, Auto
Touch [NTSC], [PAL] or [Auto] to select your desired TV standard.
TV Type: 4:3PS, 4:3LB, 16:9
Touch [4:3PS], [4:3LB] or [16:9] to select TV type to watch wide screen movies.

Password: Set
You need to enter this password in order to be able to adjust the desired stage of the parental lock.
Touch [←] to open the keypad, enter the rating password by the number buttons. Touch to erase a previously typed number.
Touch [⏎] to confirm. The original password is "**0000**". After you entered the password, [UNLOCK] appears on the screen, now you can adjust the rating level. If you want to [LOCK] it, enter a 4-digit password using the keypad.

Rating:
Touch [◂]/[▸] to select a rating level.
The rating of the disc is from 1 to 8 (kids to adults):
(1) highest restricitions
(8) lowest restrictions
Default setting: 8

Brightness:
Touch [◂]/[▸] to set brightness of the video output.

Contrast:
Touch [◂]/[▸] to set contrast of the video output.

Hue:
Touch [◂]/[▸] to set video hue.

Saturation:
Touch [◂]/[▸] to set video saturation.

Default: Restore (only DVD)
Touch [Restore] to load the original settings.

SYSTEM SETUP (CONTINUED)

RADIO SETTINGS

LOC_DX: LOC, DX
Touch [LOC] or [DX] to select preferred reception to local or distant.
LOC: Only (mainly local) stations broadcasting a strong signal can be received.
DX: Distant stations can be received.

Stereo_Mono: Mono, Stereo
Touch to select FM stereo or mono.

AF: On, Off
Touch [On] or [Off] to turn Alternative Frequency on or off.
If you activate this function the radio starts to auto-search for the same radio station on an alternative frequency when the reception quality drops under a certain threshold.

TA: On, Off
Touch [On] or [Off] to turn Traffic Announcements on or off.

TA Mode: Seek, Alarm
Touch [Seek] or [Alarm] to select TA seek or TA alarm mode.
If there are no traffic announcements identification code received, TA seek or TA alarm will be active.
TA ALARM mode: Alarm is turned on.
TA SEEK mode: TA SEEK is automatically activated.
When traffic announcement is received, the TA indicator will display. The unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement at TA volume level. After the traffic announcement is over, it will return to the previous mode and volume level. When TA is turned on, SEEK, SCAN, AMS function can only be received or saved when traffic program identification (TP) code is received.

TA Volume: ◂ / ▸
Touch [◂]/[▸] to adjust TA volume.

Retune: Retune_l, Retune_s
Touch [Retune_l] or [Retune_s] to select retune mode.
Retune-s: Short, TA SEEK retune interval is 45 seconds.
Retune-l: Long, TA SEEK retune interval is 180 seconds.

REG: On, Off
Touch [On] or [Off] to REG on or off.
REG On: AF function will implement the regional code (of the Program Identification PI) and only stations in the current region can be tuned in automatically.
REG Off: AF function will ignore the regional code (of the PI) and stations in other regions can also be tuned in automatically.

RDS CT: On, Off
Touch [On] or [Off] to toggle RDS clock time on or off.

BT SETTINGS

Pair: On, Off
Touch [On] or [Off] to toggle auto-pairing on or off.

Auto Connect: On, Off
Touch [On] or [Off] to toggle auto-connect on or off.

Auto Answer: On, Off
Touch [On] or [Off] to toggle auto-answer on or off.

PIN Code:
Touch to set the password to connect to other Bluetooth devices.

MIC: Internal, External
Touch [Intern] or [External] to select internal or external microphone. If no mic is connected this is greyed out and can´t be used.

PC_BT Update
Enable an update of the Bluetooth software (Bluetooth software write protection off/on).

Reset: On
Touch [On] to load default BT settings.

OTHER SETTINGS

TS: Adjust
Touch [Adjust] to calibrate the screen.
When the touch-screen operation is not sensitive or exact enough, you should calibrate the touch screen using the "TS Calibrate" function.

SYS_Password: Set
Function to set the system password.
Touch [Set] to pop up the keypad, then set the system password using the number buttons.
Touch [←] to erase previous number.
Touch [⏎] to confirm. The original password is "**012345**".

To reset the password, you should enter the original password first, then input a new password, touch [⏎] to confirm it and input the password again to confirm it.

DEVICE CONNECTIONS

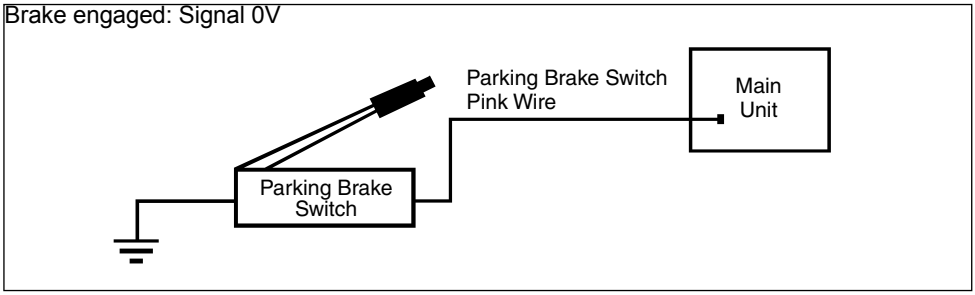
NOTES OF CONNECTION

- This unit is designed to be used in a vehicle with a 12-volt battery and negative grounding. Before installing this unit to a mobile home, a bus, or a truck, make sure the battery voltage is appropriate for this unit to be used, otherwise, install a transformer to convert the output voltage to 12 V DC.
- To avoid short circuits in the electrical system, ensure that the negative battery cable is disconnected before installation.
- To prevent short circuiting in the wiring which could lead to damage of this unit, secure all wirings with cable ties and/or adhesive tape. Route the wirings in a secure manner, stay away from hot or moving parts such as exhaust pipes, gear shift, handbrake, and seat rails to prevent the wiring insulation being melted/wore off.
- Never pass the yellow power cord through the installation hole into the engine compartment and never ever connect it directly to the car battery. If that happens, it will most likely produce some serious short-circuits which may permanently damage vital parts of the electrical system.
- Replacing a new fuse with 10 A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fire. If a proper fuse is installed and electrical problems still occur, please contact your local ZENEC dealer.
- DO NOT connect other equipment to the car battery to avoid battery overheating.
- Please make sure all the wiring connections and the cables of the speakers are well-insulated. Otherwise, this unit may be damaged by short circuits.
- If there is no ACC available, please connect ACC lead to the power supply with a switch.
- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric sparks or some other damage may be the result.
- Never ground the speaker outputs to prevent damage to the built-in power amplifier.
- The minimum rating of the speakers connected to this unit is 40 W with 4 to 8 Ω impedance.

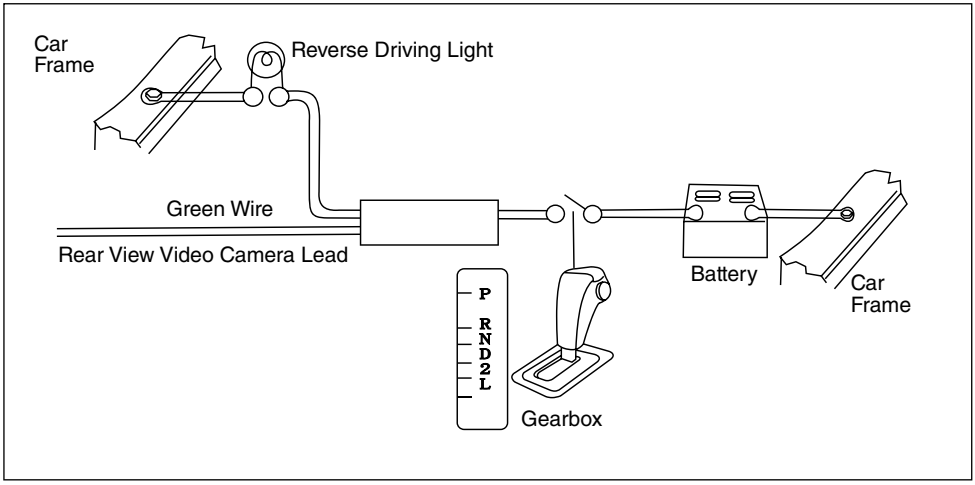
OPTION: CONNECTION TO THE ORIGINALLY EQUIPPED STEERING WHEEL REMOTE

CAN is the abbreviation for Controller Area Network. It is an vehicle specific Standard-Bus-Protocol of the car industry. Due to that protocol, the functions of the steering wheel built-in remote, as well as other vehicle functions, can be accessed and used. Simply connect the CAN-BUS box option according to the included wiring-diagram. However, we cannot guarantee that each and every used function will work, as a lot of vehicle use a lot of different functions for their remote keys.

Parking Brake Cable Connections



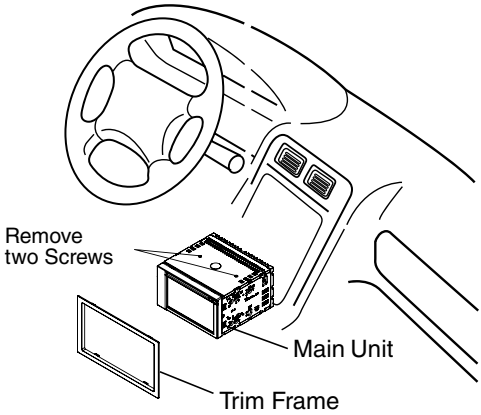
Reverse Driving Cable Connections



INSTALLATION

INSTALLATION GUIDE

1. If relevant, remove any other audio system(s) from the car.
2. Perform the required electrical connections:
3. If necessary, connect the hand brake wire to your hand brake contact in order to activate the video display when playing a DVD (when the car is parked).
4. Connect the wire that activates the rear view camera to the reversing sensor or to a reversing light. If necessary, connect your reversing camera to the car radio's reversing camera input using a video cable (not supplied).
5. Ensure that you now place the USB cable located at the back of the unit in such a way that it protrudes out of the dashboard or the glove box.
6. Then check that everything works before installing the main unit.
7. Remove the two screws on the top of the unit, otherwise the disc player will not work properly.
8. Install the car radio in the dashboard using the supplied screws (M5 x 6 mm).
9. Attach the outer trim frame.
   If you are not sure how to install this unit correctly, contact a qualified technician.



TROUBLESHOOTING

■ The following checklist can help you solve the problems which you may encounter when using the unit. Before consulting it, check the connections and follow the instructions in the user manual.

Problem	Cause	Corrective action
General		
Unit can not power on.	Unit fuse blown.	Install new fuse with correct rating.
	Car battery fuse blown.	Install new fuse with correct rating.
	Illegal operation.	Reset the unit.
Remote control does not work.	Battery depleted.	Change the Battery.
	Battery installed incorrectly.	Install the battery correctly.
No/low audio output.	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
Poor sound quality or distortion.	Pirated disc is in use.	Use original disc.
	Speaker.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Tel-Mute malfunction.	MUTE wire is grounded.	Check the 'MUTE' wiring and correct.
Unit resets itself when engine is off.	Incorrect connection. between ACC and BATT.	Check wiring and correct.
TFT monitor		
Monitor does not open automatically.	TFT Auto Open is turned off.	Turn TFT Auto Open on.
Warning information is shown when trying to watch video.	Parking break wiring is not correct.	Check wiring and correct.
Flashing image or interference appears on screen.	The color system of DVD disc does not match the monitor.	Adjust the color system of the DVD disc playing back or the monitor in us.
	Pirated disc is in use.	Use original disc.
	Video cable damaged.	Replace cables.
	Improper video signal connections.	Check wiring and correct.

TROUBLESHOOTING (CONTINUED)

Problem	Cause	Corrective action
Disc playback		
Cannot insert disc.	A disc inside the unit already.	Eject current disc and insert new one.
Disc does not play back.	Disc is warped or scratched.	Use disc in good condition.
	Disc is dirty or wet.	Clean disc with soft cloth.
	Incompatible disc is used.	Use compatible disc.
	Disc is inserted upside down.	Insert disc with label side up.
	Disc region code is not compatible with unit.	Use disc with proper region code.
PBC cannot be used during VCD playback.	PBC is not available on the disc.	Use disc with PBC available.
Repeat or search function is invalid during VCD playback.	PBC is on.	Turn PBC off.
Error messages		
No disc.	Disc is dirty.	Clean disc with soft cloth.
	Disc is upside down.	Insert disc with label side up.
	No disc inside.	Insert disc.
Bad disc.	Disc is dirty.	Clean disc with soft cloth.
	Disc is upside down.	Insert disc with label side up.
Unknown disc.	Disc format is not compatible.	Use disc with compatible format.
Region Error.	DVD region code is not compatible with this unit.	Use disc with compatible region code.

SPECIFICATIONS

General

Power supply ..... 12 V DC (11 V–16 V)
Test voltage ..... 14.4 V, negative ground
Maximum power output ..... 40 W x 4 channels
Continuous power output ..... 20 W x 4 channels (4 Ω 10% T.H.D.)
Suitable speaker impedance ..... 4–8 ohm
Pre-amp output voltage ..... 4.0 V (CD play mode: 1 KHz, 0 dB, 10 K load)
Fuse ..... 15 A
Dimensions (WxHxD)
  Chassis ..... 178 x 100 x 154 mm
Weight ..... 2.5 kg
Aux-in level ..... 300 mV
Sub-out ..... 4.0 V

Disk Player

System ..... Disk digital audio system
Frequency response ..... 20 Hz–20 KHz
Signal/noise ratio ..... >80 dB
Total harmonic distortion ..... Less than 0.20% (1 KHz)
Channel separation ..... >60 dB
Video signal output ..... NTSC/PAL/AUTO
Video output level ..... 1±0.2 V
Video signal input ..... NTSC/PAL

FM Stereo Radio

Frequency range
  (Europe) ..... 87.5–108.0 MHz
  (USA) ..... 87.5–107.9 MHz
Usable sensitivity ..... 8 dBμ
Frequency response ..... 30 Hz–15 KHz
Stereo separation ..... 30 dB (1 KHz)
Image response ratio ..... 50 dB
IF response ratio ..... 70 dB
Signal/noise ratio ..... >55 dB

AM(MW) Radio

Frequency range
  (Europe) ..... 522–1620 KHz
  (USA) ..... 530–1710 KHz
Usable sensitivity ..... 30 dBμ

15.5 cm /6.1 Inch TFT

Display resolution (dot) ..... 1440 (W) x 234 (H)
Active area (mm) ..... 136.08 (W) x 71.955 (H)
Screen size (cm/inch) ..... 15.5/6.1 (Diagonal)
Dot pitch (mm) ..... 0.0945 (H) x 0.3075 (V)
Brightness ..... ≥350 cd/m²

⚠ **NOTE:**
Specifications and the design are subject to change without notice due to improvements in technology.

APPENDIX

CONTENTS PCS

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REGION CODE

According to DVD sale region, the whole world is divided into six regions. A DVD disc can be played back only when its region code is compatible with that of the player in use.

Region 1:	USA, Canada, East Pacific Ocean Islands;
Region 2:	Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
Region 3:	Taiwan of China, Hong Kong of China, South Korea, Thailand, Indonesia, South East Asia;
Region 4:	Australia, New Zealand, Mid & South America, South Pacific, Ocean Islands/Oceania;
Region 5:	Russia, Mongolia, India, Middle Asia, East Europe, North Korea, North Africa, North West Asia;
Region 6:	Chinese Mainland.

CAUTIONS OF DISC USING

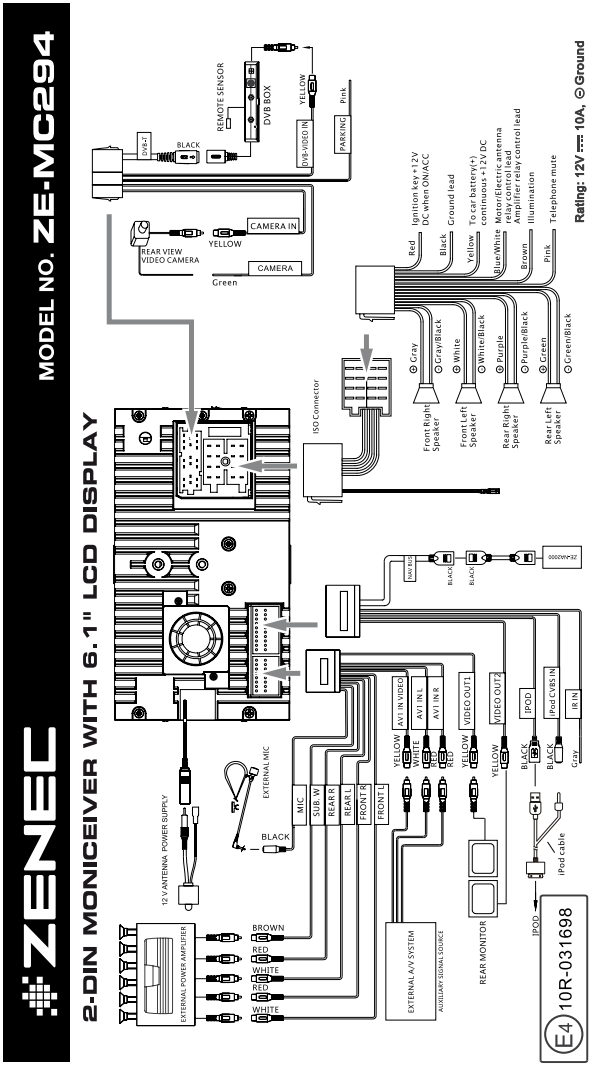
1. **DO NOT use any irregularly shaped disc.**
2. **Disc Cleaning**

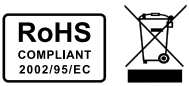
   Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used.
3. **When playing a new disc**

   New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.

APPENDIX (CONTINUED)

WIRING CONNECTIONS





- If at any time in the future you should need to dispose this product please note that waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice (Waste Electrical and Electronic Equipment Directive).

This unit is manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

CAUTION

This product is a CLASS 1 LASER PRODUCT. Use of controls or adjustments or performance of procedures other than those specifled herein may result in hazardous radiation exposure. Do not open covers and do not repair it yourself. For servicing consult qualified personnel.

TWO LASER PRODUCTS

Wave length: CD: 780nm DVD: 650nm

Laser power: No hazardous radiation is emitted with safety protection. To reduce the risk of fire, electric shock, and annoying interference, use only the included components.

2 YEARS LIMITED WARRANTY

Dear customer

Thank you for purchasing this ZENEC product. It is advisable to keep the original packing material for any future transporting of the product.
Should your ZENEC product require warranty service, please return it to the retailer from whom it was purchased or the distributor in your country.
This ZENEC product is warranted against defective materials or workmanship for a period of TWO years from date of purchase at retail.

Warranty Limitations

This warranty does not cover any damage due to:

1. Improper installation, incorrect audio or mains connection(s).
2. Exposure to excessive humidity, fluids, heat sun rays or excessive dirt or dust.
3. Accidents or abuse, unauthorized repair attempts and modifications not explicitly authorized by the manufacturer.

This warranty is limited to the repair or the replacement of the defective product at the manufacturer's option and does not include any other form of damage, whether incidental, consequential or otherwise. The warranty does not cover any transport costs or damages caused by transport or shipment of the product. Warranty work will not be carried out unless this warranty certificate is presented fully completed with model, serial number, purchaser's address, purchasing date and dealer stamp together with the original sales slip!

ZENEC MODEL: ZE-MC294

Serial number: .....

Date of purchase:.....

Your name:.....

Your address:.....

City: .....

State: ..... ZIP or postal code .....

Country: .....

Dealer's address & stamp

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